

June 8th, 2018, 17:00 UTC

The following graphs represent the coordinated launch for the University of Maryland – Baltimore County supersite (UMBC: 39.2543, -76.7093) and the Hart Miller Island supersite (HMI: 39.24219, -76.36279) on June 8th, 2018 at approximately 17:00 UTC with initial wind blowing from the south. Preliminary analysis shows a divergence in ozone mixing ratios within the first 2 km and a continuation of stratospheric air from yesterday, this time centered at 6 km.

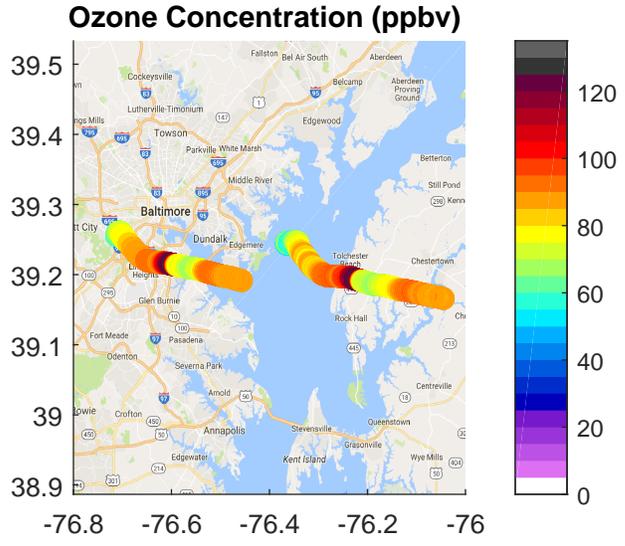
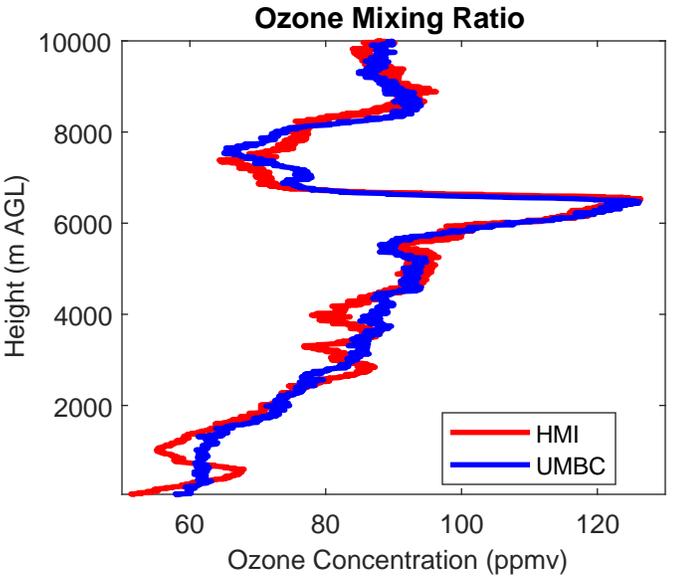
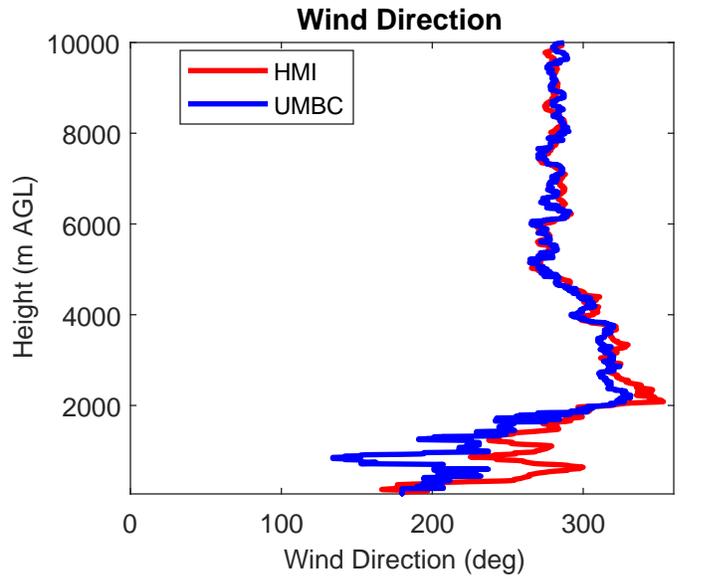
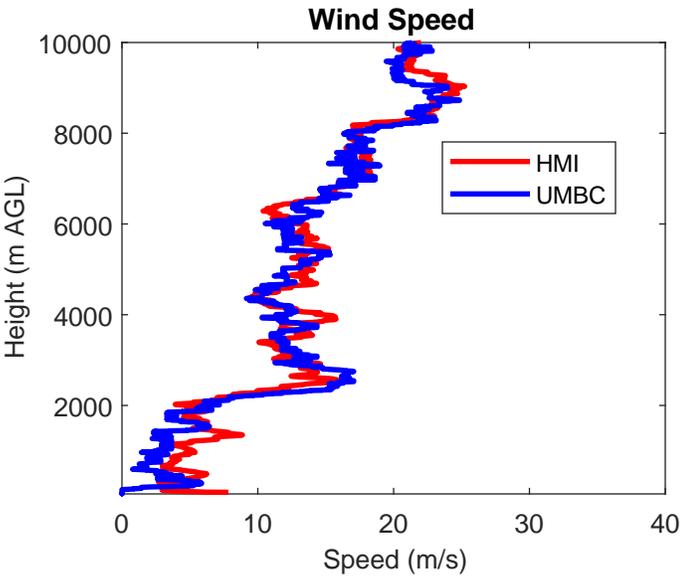
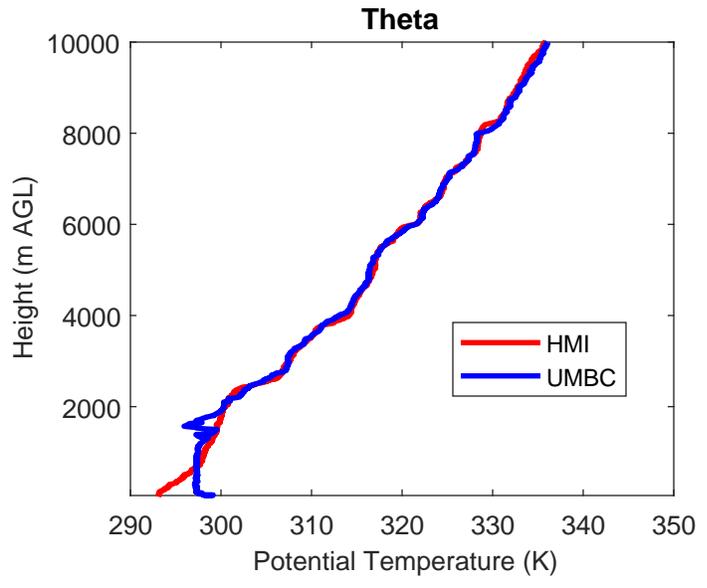
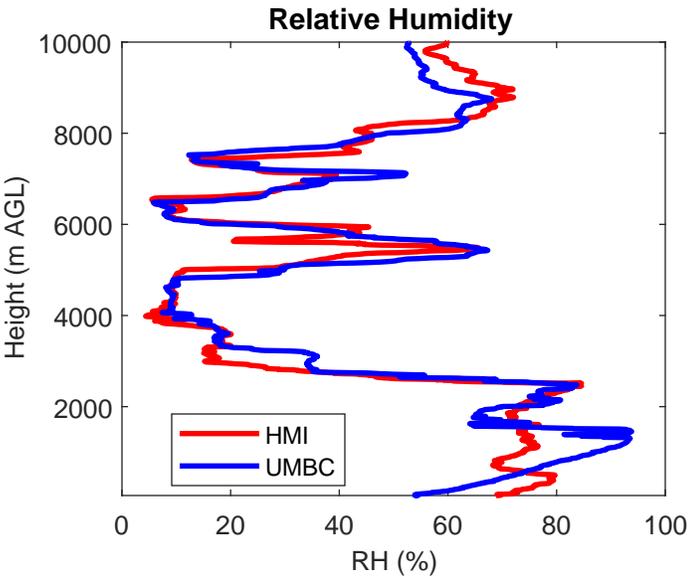
In the first 2 km, this ozone difference between the two sites could be attributed to either a sharp boundary layer over land or the differing wind directions. There is a westerly wind over HMI in the first 2 km, but a southerly wind over UMBC. Centered at 6 km, there is a sharp spike in ozone concentration from 90 to 130 ppbv then back down to 70 ppb in the span of 1000 meters. At the same altitude, the relative humidity drops to around 5-10%, indicating the presence of stratospheric air.

PLEASE NOTE: This data is preliminary and should not be used for official business.

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HMI Sonde POC: Lance Niño (lwn4@cornell.edu)

Sonde Data: June 8th, 2018 at 17:00 UTC (HMI) and 17:03 UTC (UMBC) [0-10 km]



Sonde Data: June 8th, 2018 at 17:00 UTC (HMI) and 17:03 UTC (UMBC) [0-2 km]

